

REMARKS/ARGUMENTS

Claim Rejections – 35 USC § 103

Claims 1-4, 6-11 and 13-15 were rejected as being unpatentable over Liao et al.

In response to this rejection, Applicant has followed the suggestions of the Examiner to rewrite claim 5 in an independent claim, and then making claims 2-4, and 6-8 depend therefrom, claims 2-8 should now be allowable.

Independent Claim 9 was amended to incorporate the same limitations of claim 5 into an intermediate scope claim 9, thereby rendering it allowable, as well as claims 10-15 depending therefrom.

Consequently, claims 2-20 should now be allowable claims.

Claim Objections

Claim 5 was objected to as being dependent upon a rejected base claim.

In response to this rejection, Applicant has followed the suggestions of the Examiner to rewrite claim 5 in an independent claim, rendering the claim allowable.


Applicant wishes to thank the Examiner for the thorough examination, and hopes, that by these amendments and arguments, the subject matter of the present invention is now more clearly stated. The argument provides a closer review of the present invention and gives solid support for an allowance. Consequently, Applicant requests the Examiner's reconsideration in the instant Application and withdrawal of all grounds of rejection in view of the arguments.

If the Examiner feels that the prosecution of this Application can be expedited by conversation, the Examiner is courteously requested to place a telephone call to Applicant's attorney at the number listed below.

In view of the foregoing, it is believed that all claims now distinguish over the prior art and are allowable. For the reasons discussed above, it is believed that this Application is now in an allowable condition such that it is appropriate to hereby respectfully solicit its allowance.

Respectfully submitted,

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CLEAN SET OF CLAIMS

2. (Currently Amended) The dressing wheel suitable for dressing a grinding wheel surface of claim 5, further comprising at least one additional dressing wheel component including at least one flat grinding surface adjacent to the interrupted cutting outer surface, said grinding surface being suitable for dressing a grinding wheel.

3. (Currently Amended) The dressing wheel suitable for dressing a grinding wheel surface of claim 5, further comprising at least two additional dressing wheel components including flat grinding surfaces adjacent to, and surrounding, the interrupted cutting outer surface, said grinding surface being suitable for dressing a grinding wheel.

4. (Currently Amended) The dressing wheel suitable for dressing a grinding wheel surface of claim 5, wherein the interrupted cutting surface is selected from the group consisting of stainless steel of any grade, cold rolled steel, copper, brass, and combinations thereof.

5. (Currently Amended) A dressing wheel suitable for dressing a grinding wheel surface to be used for maintaining a certain tolerance to assure reliability and quality control of ground parts during the grinding operation, comprising:

 a dressing wheel component selecting from the group consisting of star-shaped, saw-blade-shaped and circular saw-shaped dressing wheel components, including at least one interrupted cutting outer surface, wherein the interrupted cutting surface is embodied in a cutting wheel with a plurality of tips extending outwardly from the outer surface, wherein said plurality of tips contacts the grinding wheel during the grinding operation, thereby alleviating glazing and heat expansion of the grinding wheel while being dressed,

 wherein the interrupted cutting surface dressing wheel components includes multiple star-shaped components sandwiched between ceramic dressing wheel materials.

6. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 2, wherein the at least one flat grinding surface is selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

7. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 3, wherein the at least two flat grinding surfaces are selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

8. (Currently Amended) The dressing wheel suitable for dressing a grinding wheel surface of claim 5, further comprising a central orifice therethrough to allow for mounting onto a spindle assembly.

9. (Currently Amended) A dressing wheel suitable for dressing a grinding wheel surface to be used for maintaining a certain tolerance to assure reliability and quality control of ground parts during the grinding operation, comprising:

 a first dressing wheel component including at least one interrupted cutting outer surface, wherein the interrupted cutting surface is embodied in a cutting wheel with a plurality of tips extending outwardly from the outer surface, wherein said plurality of tips contacts the grinding wheel during the dressing operation, thereby alleviating glazing and heat expansion of the grinding wheel while being dressed; and

 a second dressing wheel component including a flat grinding surface adjacent to the interrupted cutting outer surface, said grinding surface being suitable for dressing a grinding wheel , and

 wherein the interrupted cutting surface dressing wheel components includes multiple star-shaped components sandwiched between ceramic dressing wheel materials.

10. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 9, wherein the dressing wheel component is selected from the group consisting of star-shaped, saw-blade-shaped and circular saw-shaped dressing wheel components.

11. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 9, further comprising a third dressing wheel component including a second flat grinding surface, wherein said second and third dressing wheel components are adjacent to, and surrounding, the interrupted cutting outer surface.

12. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 9, wherein the interrupted cutting surface is selected from the group consisting of stainless steel of any grade, cold rolled steel, copper, brass, and combinations thereof.

13. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 9, wherein the flat grinding surface is selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

14. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 11, wherein the second flat grinding surface is selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

15. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 9, further comprising a central orifice therethrough to allow for mounting onto a spindle assembly.

16. (Previously presented) A dressing wheel suitable for dressing a grinding wheel surface to be used for maintaining a certain tolerance to assure reliability and quality control of ground parts during the grinding operation, comprising:

a dressing wheel component including at least one interrupted cutting outer surface, wherein the interrupted cutting surface is embodied in a cutting wheel with a plurality of tips extending outwardly from the outer surface, wherein said plurality of tips contacts the grinding wheel during the grinding operation, thereby alleviating glazing and heat expansion of the grinding wheel while being dressed; and

two dressing stones adjacent to, and surrounding the dressing wheel component, wherein the dressing wheel component is sandwiched between the two ceramic dressing wheel stones.

17. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 16, wherein the dressing wheel component is selected from the group consisting of star-shaped, saw-blade-shaped and circular saw-shaped dressing wheel components.

18. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 16, wherein the interrupted cutting surface is selected from the group consisting of stainless steel of any grade, cold rolled steel, copper, brass, and combinations thereof.

19. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 16, wherein each of the dressing stones is selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

20. (Previously presented) The dressing wheel suitable for dressing a grinding wheel surface of claim 16, further comprising a central orifice therethrough to allow for mounting onto a spindle assembly.